

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. **Claims 10-15, 17-20, 22-23, and 25-26** are rejected under 35 U.S.C. 103(a) as being unpatentable over Oleskevich et al. US Patent 5,790,735 (hereinafter referred to as Oleskevich) in view of Tanuma US Patent 5,402,438 (hereinafter referred to as Tanuma) and further in view of Ohishi et al. US Patent 6,373,863 (hereinafter referred to as Ohishi).
3. **For claims 10, 19, and 20** the combination is applied according to the first action on the merits dated 7/9/2007. The claims 10, 19, and 20 have been amended to read "the output mirror reflects essentially all pump radiation as well as essentially all laser radiation, except laser radiation falling on an inner region of said output mirror, said inner region of lower reflectance for the laser radiation, whereby said output mirror predominantly couples out low transverse modes." Added matter is shown by underlining.
4. In the combination of the previous office action, Tanuma further teaches the reflection surface of the output mirror is high reflectance except at a predetermined central region where it is low reflectance to output laser light (column 3, lines 46-49). Tanuma therefore teaches the limitation regarding the laser radiation reflectance.
5. The combination of the previous office action does not teach the output mirror reflects essentially all pump radiation.

6. However, Ohishi does teach using an output mirror with a high reflectivity at the pump wave length (figure 15, label 54 and column 13, lines 39-42).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine high reflectivity at the pump wave length taught by Ohishi with the previous combination in order to provide a second pass of the pump light to further excite the active medium.

7. **For claim 11-15, 17-18, 22-23, and 25-26**, the combination is further applied according to the previous office action dated 7/9/2007.

8. **Claims 16 and 24** is rejected under 35 U.S.C. 103(a) as being unpatentable over Oleskevich in view of Tanuma and Ohishi and further in view of Waarts et al. US Patent 4,995,050 (hereinafter referred to as Waarts).

9. **For claims 16 and 24**, the combination is further applied according to the previous office action dated 7/9/2007.

10. **Claim 21** is rejected under 35 U.S.C. 103(a) as being unpatentable over Oleskevich in view of Tanuma and Ohishi and further in view of Shaw et al. US Patent 4,463,428 (hereinafter referred to as Shaw).

11. **For claim 21**, the combination is further applied according to the previous office action dated 7/9/2007.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL CARTER whose telephone number is

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(571)270-1872. The examiner can normally be reached on Monday-Friday, 7:00 a.m.-4:30 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MinSun Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/MC/

/Minsun Harvey/  
Supervisory Patent Examiner, Art Unit 2828